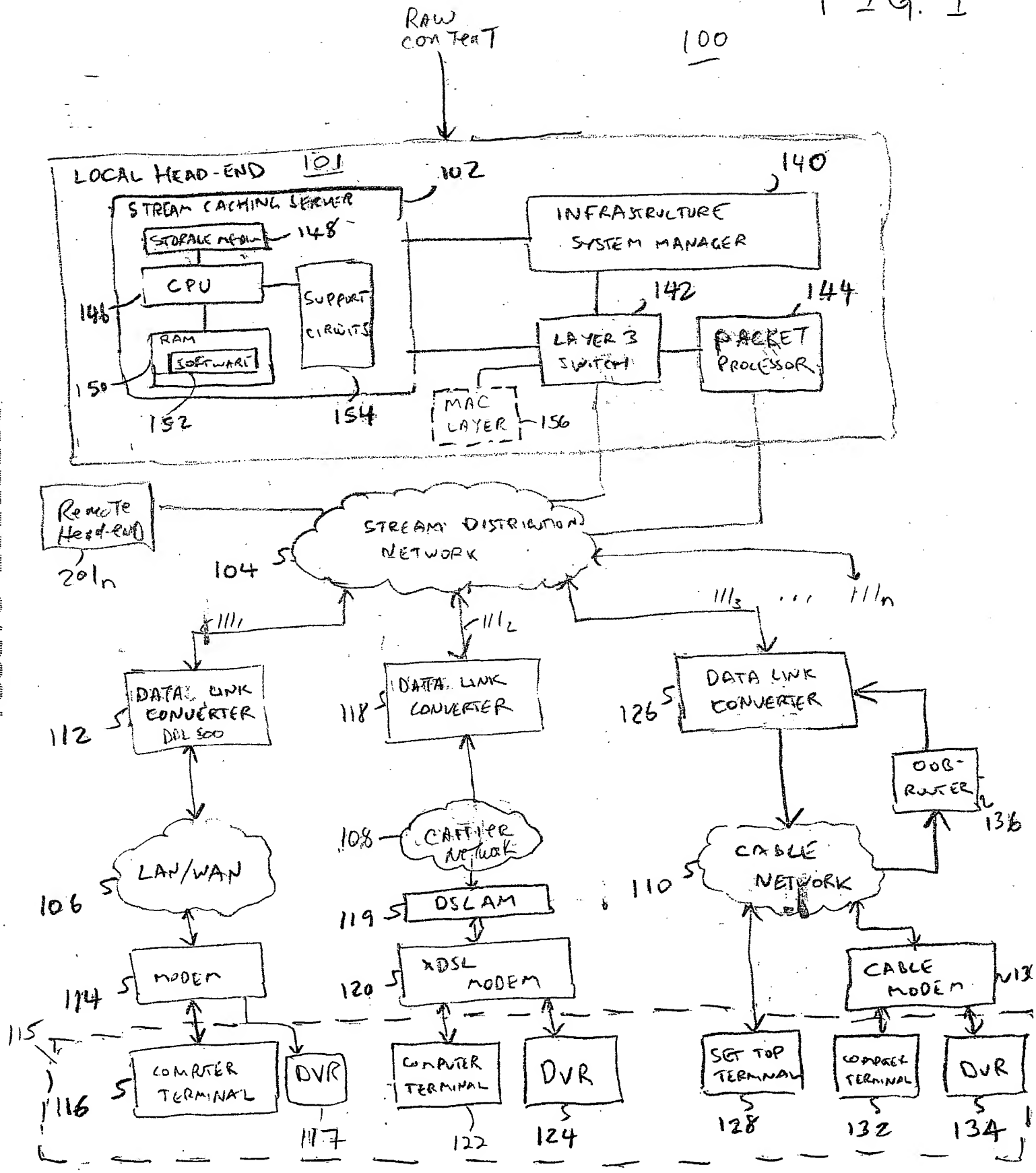
FIG. 1


RAW CONTENT
100
LOCAL HEAD-END
101
102
STREAM CACHING SERVER
STORAGE MEDIA
148
CPU
146
SUPPORT CIRCUITS
RAM
SOFTWARE
150
152
154
140
INFRASTRUCTURE SYSTEM MANAGER
142
LAYER 3 SWITCH
144
PACKET PROCESSOR
MAC LAYER
156
Remote Head-End
201n
STREAM DISTRIBUTION NETWORK
104
111n
DATA LINK CONVERTER
112
DATA LINK CONVERTER
118
DATA LINK CONVERTER
126
OOB-ROUTER
136
LAN/WAN
106
CARRIER NETWORK
108
DSLAM
119
CABLE NETWORK
110
MODEM
114
xDSL MODEM
120
CABLE MODEM
115
COMPUTER TERMINAL
116
DVR
117
COMPUTER TERMINAL
122
DVR
124
SET TOP TERMINAL
128
COMPUTER TERMINAL
132
DVR
134

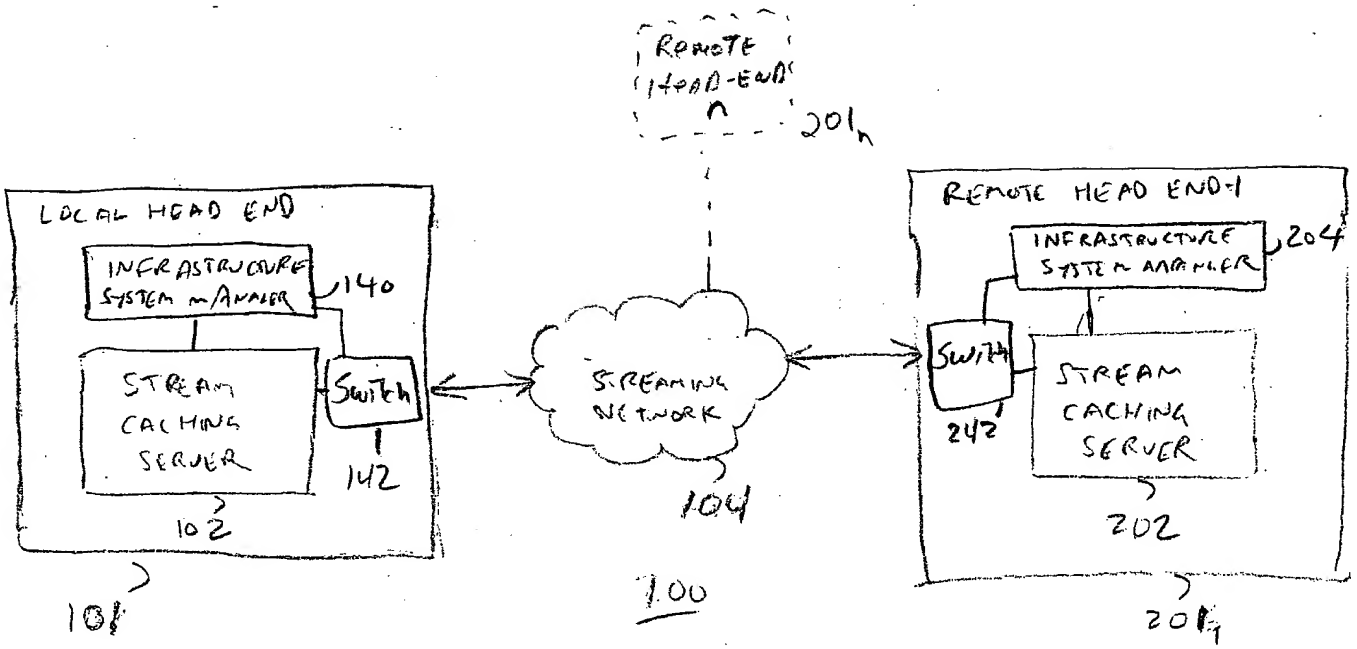


FIG. 2

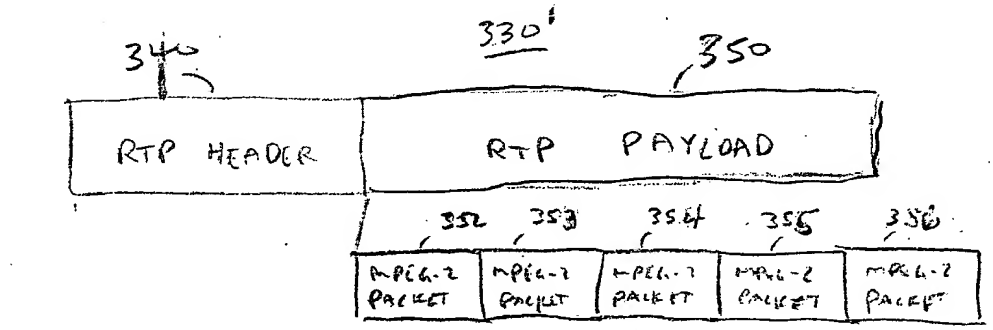


FIG. 3B

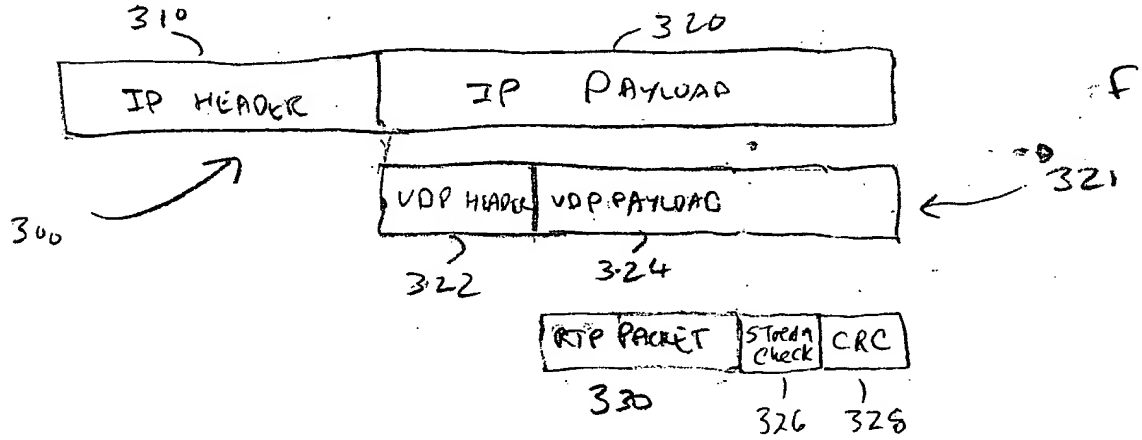
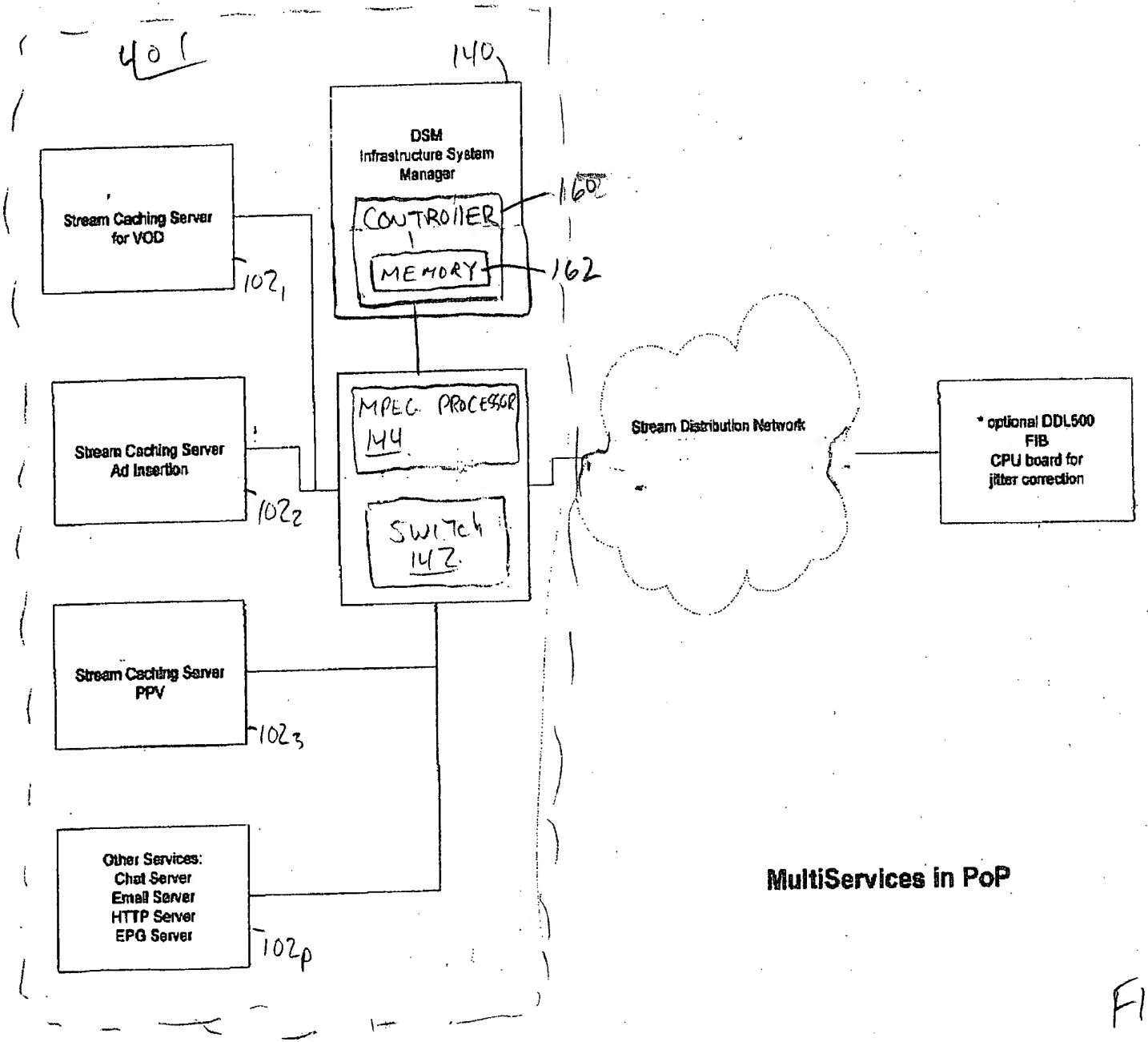


FIG. 3A

TOBETO" 20222660

400



MultiServices in PoP

FIG. 4

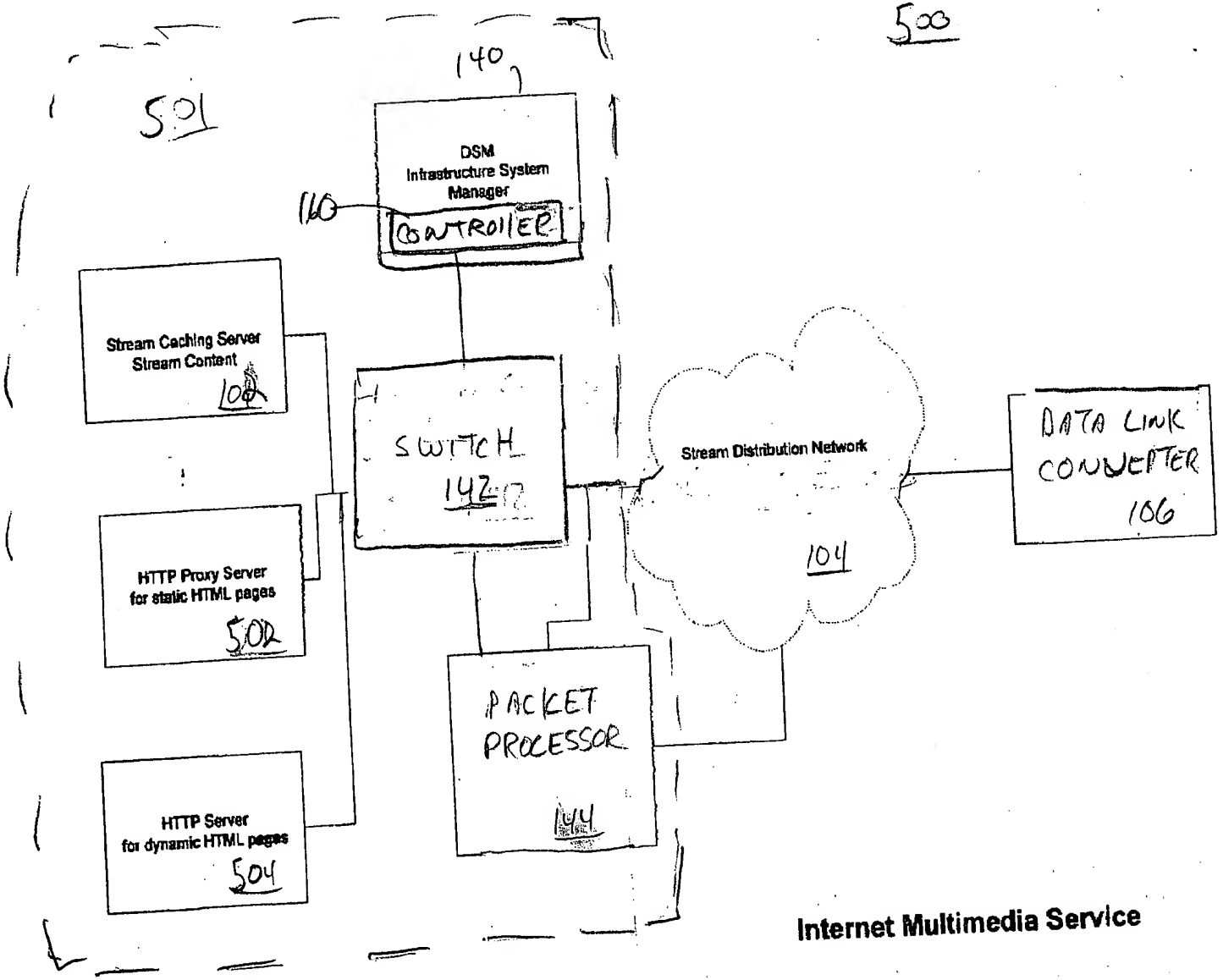

500
501
140
DSM
Infrastructure System
Manager
160
CONTROLLER
Stream Caching Server
Stream Content
102
SWITCH
142
Stream Distribution Network
104
DATA LINK
CONVERTER
106
HTTP Proxy Server
for static HTML pages
502
PACKET
PROCESSOR
144
HTTP Server
for dynamic HTML pages
504
Internet Multimedia Service

FIG. 5

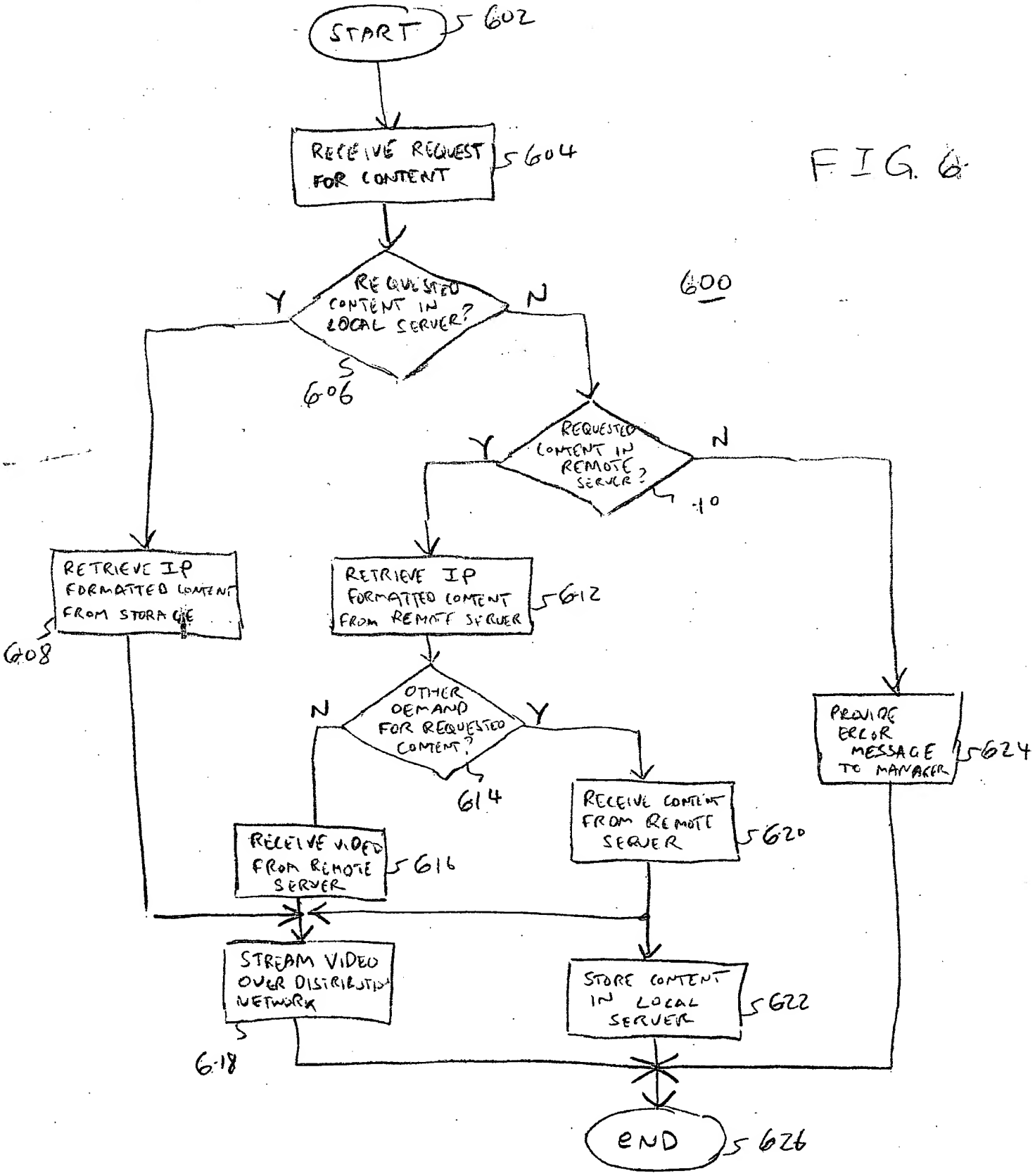

START
602
RECEIVE REQUEST FOR CONTENT
604
600
REQUESTED CONTENT IN LOCAL SERVER?
606
Y
N
REQUESTED CONTENT IN REMOTE SERVER?
610
Y
N
RETRIEVE IP FORMATTED CONTENT FROM STORAGE
608
RETRIEVE IP FORMATTED CONTENT FROM REMOTE SERVER
612
OTHER DEMAND FOR REQUESTED CONTENT?
614
N
Y
PROVIDE ERROR MESSAGE TO MANAGER
624
RECEIVE VIDEO FROM REMOTE SERVER
616
RECEIVE CONTENT FROM REMOTE SERVER
620
STREAM VIDEO OVER DISTRIBUTION NETWORK
618
STORE CONTENT IN LOCAL SERVER
622
END
626

FIG. 6

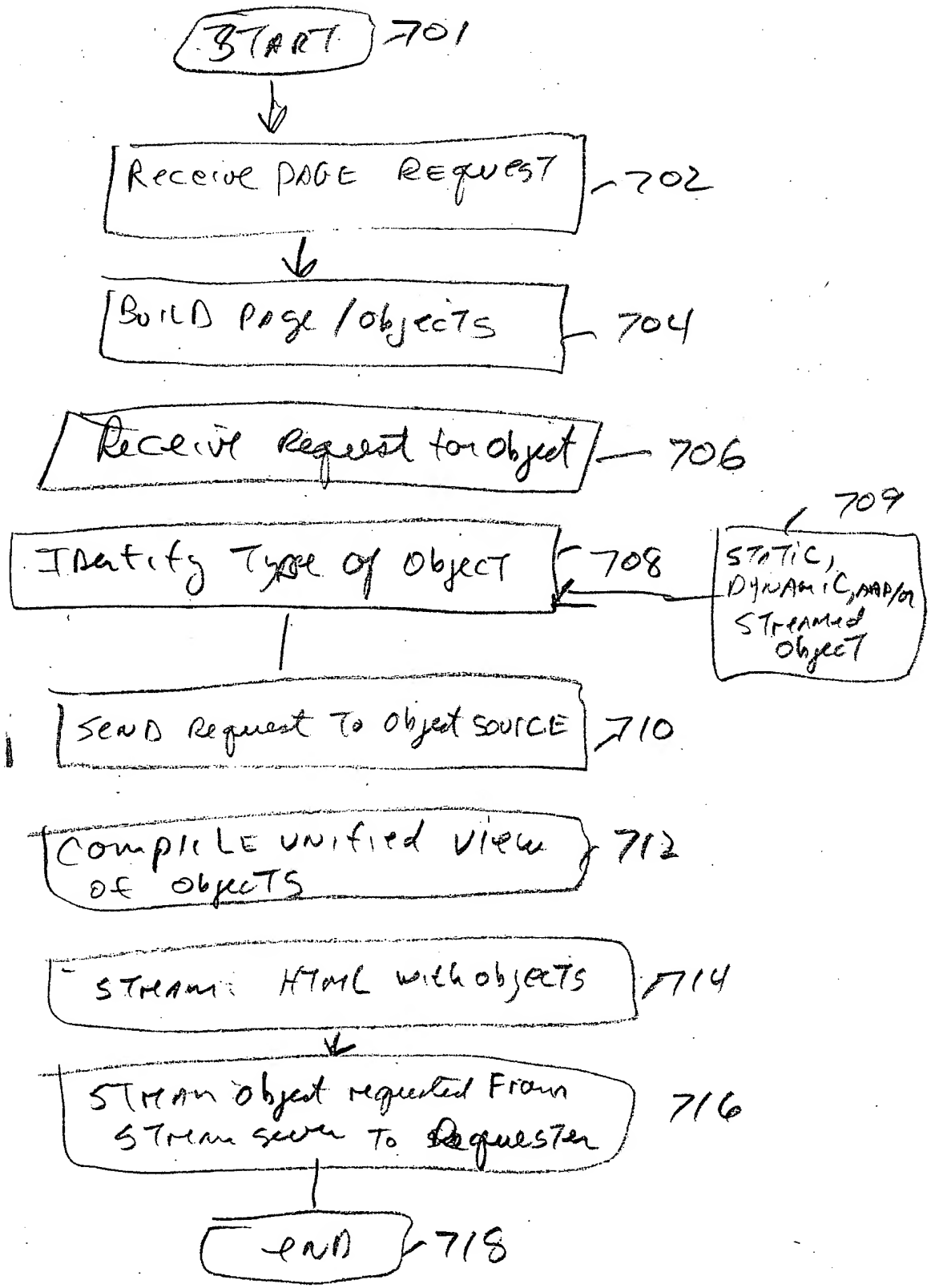

START
701
Receive PAGE Request
702
Build Page / objects
704
Receive Request for Object
706
Identify Type of Object
708
709
STATIC, DYNAMIC, AND/OR STREAMED OBJECT
SEND Request To Object SOURCE
710
COMPILE UNIFIED VIEW OF OBJECTS
712
STREAM HTML with objects
714
STREAM Object requested From STREAM server To Requester
716
END
718

FIG. 7